

**PHYSICS 101L**  
**INTRODUCTORY PHYSICS LABORATORY I**  
**(0.2 ; 1 credit)**

**Textbook:** Physics 105 Laboratory Manual  
Physics Department

**Experiments:**

1. Significant figures, errors, and analysis of results.
2. Measurement (introduction to basic measuring devices).
3. Speed and acceleration (paper tape and projectiles).
4. g measurement (picket fence and photogate) and Atwood machine.
5. Forces (statics & dynamics).
6. Friction.
7. Circular motion.
8. Conservation of energy (linear air track).
9. Conservation of momentum (linear air track).
10. Ballistic Pendulum
11. Rotation (rotational kinematics, torques, and moments of inertia).
12. Conservation of Mechanical Energy (Rotation)
13. Simple harmonic motion (oscillating spring & torsional pendulum).

**N.B. Pre- or co-requisite: Physics 101.**

Fall 2000